

.pressfit®

SFT1™
CIRCUIT BREAKERS

THE ORANGE LINE OF SAFETY!



Circuit Breakers
SG-01 v5
21st May 2022

Protect What's Valuable



SFT1[™] CIRCUIT BREAKERS

As is the norm for many decades, electricity forms the core of our existence. In one form or the other, electrical systems have touched every aspect of our lives and continue to grow faster than ever before. With the advent of Internet of Things (IoT), the load on electrical systems and the criticality increases even more! With heavier loads, come greater safety requirements. Pressfit's range of SFT1 Circuit Breakers are designed to protect humans as well as appliances from the dangerous side of electricity. Placing safety above all, SFT1 MCBs, RCCBs, Isolators, and Changeover Switches are engineered to deliver quicker fail-overs and safer protection standards.

MCB

Miniature Circuit Breakers (MCB)

Overloading and fluctuation in electric supply can be dangerous to humans as well as appliances. To mitigate these risks, installation of miniature circuit breakers or MCBs is necessary. Designed, engineered, and made in India, Pressfit's SFT1 MCBs deliver optimum security to your premises 24x7! In the event of an overload or a short-circuit, SFT1 MCBs safely cut the connected circuit almost instantaneously. Precious lives and equipment are protected not just from electrical damage, but also from fires that are mostly caused by short circuits. Equipped with a High-Speed and High Breaking Capacity Mechanism, and a high short circuit breaking capacity of 10000A (10kA), SFT1 circuit breakers adhere to the IS/IEC 60898-1 norms and are the perfect fit for your heavy electrical appliances.



Virgin, Fire-Retardant Nylon Body



Technical Specifications

Standard Conformity	IS/IEC 60898-1-2008, DIN 43-880		
Standard Rated Current (I_n)	6A to 63A		
Rated Short Circuit Capacity (I_{cn})	10000A (10kA)		
Service Short Circuit Capacity (I_{cs})	7500A (7.5kA)		
Energy Limiting Class	Class 3		
Magnetic Release Setting	B Curve (3-5) I_n		C Curve (5-10) I_n
Poles	B Curve		C Curve
	SP		SP, SP+N, DP, TP, TP+N, FP
Rated Operational Voltage (U_e)	SP, TP+N 240/415 V AC	SP+N 240 V AC	DP, TP, FP 415 V AC
Rated Insulation Voltage (U_i)	660 V AC		
Rated Impulse Voltage (U_{imp})	4kV		
Rated Frequency (f)	50Hz		
Dielectric Strength	2000V for 1 minute		
Protection Class	IP20		
Tripping Mechanism	Thermal and Magnetic Type		
Normal Operating Conditions	10°C to 60°C, RH <85%, <2000 m Altitude		
Endurance (Mechanical)	20000 operations		
Endurance (Electrical)	20000 operations ($I_n < 32A$) 10000 operations ($I_n > 32A$)		
Contact Indication	Red - On, Green - Off		
Terminal Capacity	35 sq. mm		
Power Loss	Much less than IS/IEC Standards		
Mounting	On DIN Rail (35 mm x 7.5 mm)		

RCCB

Residual Current Circuit Breakers (RCCB)

Pressfit's SFT1 Residual current circuit breakers (RCCB) protect people from the risks of electrocution and fires caused due to faulty wiring, poorly insulated equipment, sudden earth faults, or incorrect use of an electrical device. These mistakes cause current to flow in reverse to the earth, which is called an 'Earth Leakage Current', and it is an electrical hazard. The RCCB immediately trips when an imbalance in electric current is detected, protecting us from direct and/or indirect contacts. Pressfit's SFT1 RCCB adhere to the IS/IEC 12640-1 norms and one of the greatest advantages is that it takes only about 20 milliseconds to trip and take the control over the imbalanced electric current.



Virgin, Fire-Retardant Nylon Body



Technical Specifications

Reference Standard	IS 12640-1:2000, IEC 61008, DIN 43-880
Poles	DP & FP
Current Rating (I_n)	25A, 40A & 63A
Rated Voltage (U_e)	DP: 240 V AC, FP: 240/415 V AC
Rated Residual Operating Current ($I_{\Delta n}$)	30mA, 100mA & 300mA
Protection	Against Earth Fault / Leakage Current
Operating Device	Current Operating Device
Rated Frequency (f)	50 Hz
Rated Impulse Voltage	4 kV
Short Circuit Withstanding Capacity	DP: 10 kA, FP: 6 kA
Rated Insulation Voltage (U_i)	440 V
Rated Conditional Short Circuit Current (I_{nc})	DP: 10 kA, FP: 6 kA
Rated Making and Breaking Capacity (I_m)	500A or $10I_n$ whichever is greater
Operating Characteristic	AC Type
Dielectric Strength	2 kV 1min.
Trip Time	Instantaneous <40ms, Selective > 150ms
Normal Operating Conditions	10°C to 60°C, RH <85%, <2000 m Altitude
Terminal Capacity	35 sq. mm Copper
Vibration	3g
Protection Class	IP20
Contact Position Indication	Yes
Installation Position	Vertical / Horizontal
Mounting	Clip on DIN rail (35 mm * 7.5 mm)

ISOLATOR

Isolator

An isolator switch isolates or disconnects the circuit from the mains and gets rid of the trapped charges of the circuit. This is necessary to carry out repairs and maintenance in the electrical setup. An isolator ensures that there will be no current at the load side even if an impulse voltage appears when the isolator is switched off. Isolators are generally used at the end of the breaker to repair or to replace. Pressfit's SFT1 Isolators are perfect companions for ensuring the complete de-energisation of the electrical circuits of residences and/or commercial premises. They can be safely used as incomers and are made in reference to the IS/IEC 60947-3 norms. These are equipped with Silver alloy contacts for weld-free operations and form the perfect fitments as incomers for individual residences.



Virgin, Fire-Retardant Nylon Body



Technical Specifications

Reference Standard	IS/IEC 60947-3
Poles	DP, TP & FP
Current Rating (I_n)	40A, 63A, 100A, and 125A
Rated Voltage (U_n)	240/415V AC
Rated Frequency (f)	50 Hz
Utilization Category	AC 22A
Rated Insulation Voltage (U_i)	660 V
Rated Impulse Voltage (U_{imp})	6 kV
Operating Temperature	-5 to 50 C
Dielectric Strength	2000V 1 min.
Relative Humidity	95%
Vibration	3 g
Protection Class	IP20
Contact Position Indication	Yes
Termination	Bi-connect (bus bar/cable) $\leq$ 63A Cable $\geq$ 63A
Terminal Capacity	40A/63A: 4 sq. mm to 35 sq. mm for Cu conductors 100A: 10 sq. mm to 50 sq. mm for Cu conductors
Design	Double-break contact design
Mounting	Clip on DIN rail (35 mm * 7.5 mm)
Installation Position	Vertical/Horizontal
Case and cover Material	Moulded, Flame Retardant Plastic

CHANGEOVER

MCB Changeover Switch

Pressfit's SFT1 MCB Changeover Switch (COS) enables us to switch the load between two power supplies. In most cases, the COS is used to switch to a backup line when the main line needs to be taken offline for repair and maintenance. It is widely used in industries and in domestic locations where continuity of supply is necessary. It finds a lot of use in individual bungalows due to the same reason.

Changeover switches, in principle, disconnect switches independently based on manual operation, and can make, carry, and break currents under normal circuit conditions. The COS has 3 positions – I-O-II with the center line being the off. The SFT1 COS comes in 2 types - DP and FP – for single and three phase applications respectively.



Virgin, Fire-Retardant Nylon Body



Technical Specifications

Reference Standard	IS/IEC 60947-3
Poles	DP, FP
Current Rating (I _n)	25A, 40A, 63A
Rated Voltage (U _e)	240/415V AC
Rated Frequency (f)	50 Hz
Utilization Category	AC 22A
Rated Insulation Voltage (U _i)	660V AC
Rated Impulse Voltage (U _{imp})	4 kV
Operating Temperature	-5 to 50 C
Dielectric Strength	2500V 1 min.
Relative Humidity	95%
Protection Class	IP20
Contact Position Indication	Yes
Mounting	Clip on DIN rail (35 mm * 7.5 mm)

Installation:

1. Switch off the MCB and disconnect the power supply.
2. Mount the COS over DIN rail with snap at bottom.
3. Check the operation and the knob positions before connecting the cables.
4. When the knob position is I:
 - a. Top indicator is RED, Bottom indicator is GREEN
 - b. Load is connected through power supply I
5. When the knob position is II:
 - a. Top indicator is GREEN, Bottom indicator is RED
 - b. Load is connected through power supply II
6. When the knob is at the MID position, both indicators show GREEN & it is a No-Load / Off position.
7. Connect the cables at the incoming and outgoing terminals
8. Select power supply (I or II) for the load.
9. Switch the MCB on.

MINI MCB

Mini MCB

Pressfit's SFT1 Mini MCBs are designed to protect household appliances from electrical overloads and short circuits. As their name suggests, mini MCBs are very compact – fitting in the safety features of the traditional MCB in the form factor of everyday switches and sockets.

Our Mini MCBs are available in both modular – compatible with our One and Edge range of modular plates – as well as non-modular form – to be affixed on switchboards with screws. Mini MCBs provide per-point protection to your devices while being economical – as it can save you the expense of a Surface DP Switch or separate board.

Features:

- Protects against overload and short-circuit
- Low Power Loss in operation
- Variants available for modular plates as well as non-modular boards
- Can be used for per-point protection
- Compact and Aesthetic Design with latest technology
- Long electrical and mechanical life

Applications:

- DOMESTIC: Air Conditioners, Refrigerators, Geysers, Washing Machines, Home Theaters, Domestic Pump sets, Microwave Ovens, Grillers, Single Phase Motors, etc
- COMMERCIAL: AC, Hot Plate, Xerox machines, Diffusers
- HOSPITALITY: AC, Heaters, Coolers, Heavy-Duty Mixers, Cooking Equipment
- HEALTHCARE: Low-Watt X-Ray Machines, Laboratory Equipment in Individual Clinics

Technical Specifications:

Standard Conformity: IS/IEC 60898-1 (2008)

Rated Short-Circuit Capacity (I_{cn}): 3000A (3kA)

Service Short-Circuit Capacity (I_{cs}): 1500A (1.5kA)

Energy-Limiting Class: Class 3

Magnetic Release Setting: C Curve

Rated Operational Voltage: SP – 240/415VAC, DP – 415VAC



Porcelain Kit-Kat Fuses

Pressfit's Porcelain Kit-Kat Fuses are designed for reliable and robust operation. To protect valuable appliances against power surges and overloads, our fuses are made using the finest anti-degradant, high-glaze porcelain, and top-notch brass connectors. The fuses are rewireable, are easy-to-install and are meant for domestic wiring and small-scale usage.

The way these fuses work is very different from MCBs. The metal fuse wire is the critical component for the product. If too much current passes through it, the wire melts and breaks the circuit.

There are two parts in kit kat fuse – fuse carrier (top) and fuse base (bottom). The metal contacts are fixed in the base and incoming/outgoing wires are attached to these contacts. The circuit is completed when the top is inserted into the base, connecting the load-side circuit to the source-side circuit. The main advantage of this type of fuse is that it can be easily disconnected from the circuit without any risk of coming in contact with the live wire.



Anti
Degradant



High-Glaze
Porcelain



Reliable
Brass Connectors



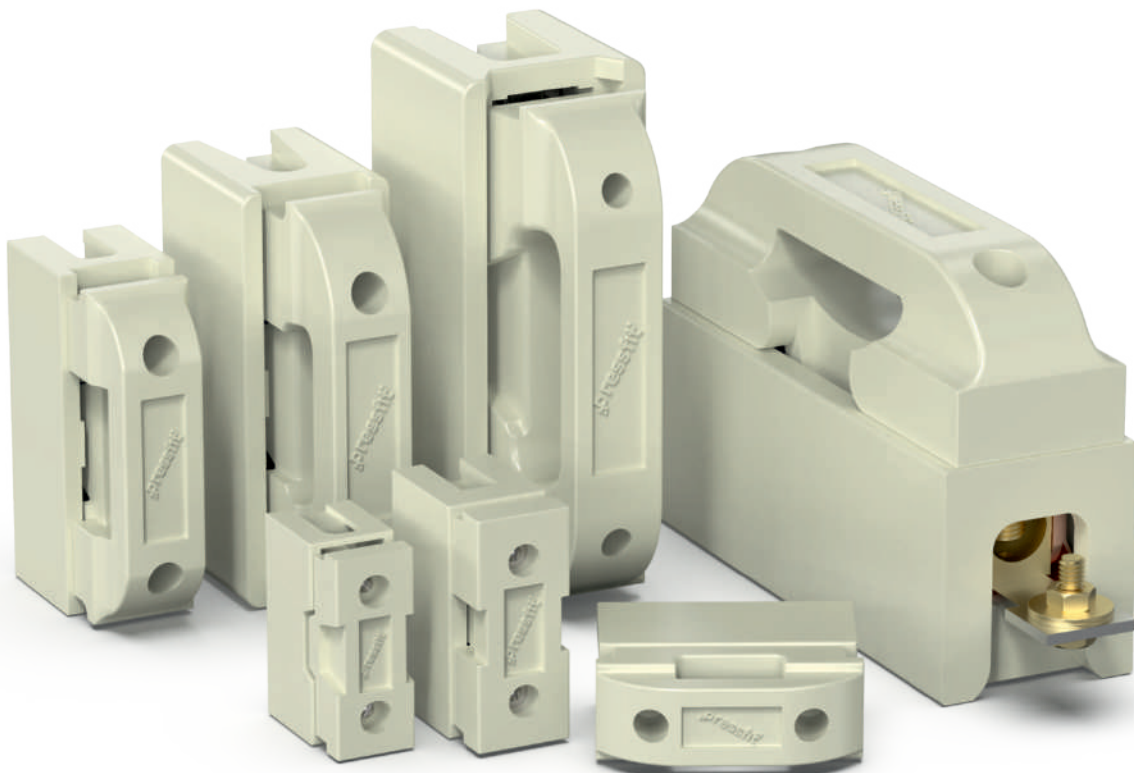
Easy to
Install



Rewireable

Alternative to MCBs

MCBs have many advantages over porcelain fuses but still, fuses serve as a better alternative for many purposes. They generally have a lesser operating time and are more cost-effective than MCBs. They also offer more flexibility as they can be changed to operate at a different load capacity temporarily. This can be done by changing the thickness of the fuse wire used.





C-Type

Code	Description	LP (₹)	PKG. (N)
810105	6A SP	150.00	12
810107	10A SP	150.00	12
810109	16A SP	150.00	12
810110	20A SP	150.00	12
810111	25A SP	150.00	12
810112	32A SP	150.00	12
810113	40A SP	200.00	12
810114	50A SP	205.00	12
810115	63A SP	205.00	12

SP
MCB



C-Type

Code	Description	LP (₹)	PKG. (N)
810505	6A SPN	330.00	6
810507	10A SPN	330.00	6
810509	16A SPN	330.00	6
810510	20A SPN	330.00	6
810511	25A SPN	330.00	6
810512	32A SPN	330.00	6
810513	40A SPN	490.00	6
810514	50A SPN	500.00	6
810515	63A SPN	500.00	6

SPN
MCB



C-Type

Code	Description	LP (₹)	PKG. (N)
810205	6A DP	330.00	6
810207	10A DP	330.00	6
810209	16A DP	330.00	6
810210	20A DP	330.00	6
810211	25A DP	330.00	6
810212	32A DP	330.00	6
810213	40A DP	490.00	6
810214	50A DP	500.00	6
810215	63A DP	500.00	6

DP
MCB



C-Type

Code	Description	LP (₹)	PKG. (N)
810305	6A TP	540.00	4
810307	10A TP	540.00	4
810309	16A TP	540.00	4
810310	20A TP	540.00	4
810311	25A TP	540.00	4
810312	32A TP	540.00	4
810313	40A TP	790.00	4
810314	50A TP	800.00	4
810315	63A TP	800.00	4

TP
MCB

TPN MCB

Code	Description	LP (₹)	PKG. (N)
810605	6A TPN	780.00	3
810607	10A TPN	780.00	3
810609	16A TPN	780.00	3
810610	20A TPN	780.00	3
810611	25A TPN	780.00	3
810612	32A TPN	780.00	3
810613	40A TPN	985.00	3
810614	50A TPN	995.00	3
810615	63A TPN	995.00	3



C-Type

FP MCB

Code	Description	LP (₹)	PKG. (N)
810405	6A FP	780.00	3
810407	10A FP	780.00	3
810409	16A FP	780.00	3
810410	20A FP	780.00	3
810411	25A FP	780.00	3
810412	32A FP	780.00	3
810413	40A FP	985.00	3
810414	50A FP	995.00	3
810415	63A FP	995.00	3



C-Type

DP RCCB

Code	Description	LP (₹)	PKG. (N)
813201	25A DP (30 mA)	1600.00	6
813221	40A DP (30 mA)	1600.00	6
813241	63A DP (30 mA)	2100.00	6
813202	25A DP (100 mA)	1600.00	6
813222	40A DP (100 mA)	1600.00	6
813242	63A DP (100 mA)	2100.00	6
813223	40A DP (300 mA)	1600.00	6
813243	63A DP (300 mA)	2100.00	6



FP RCCB

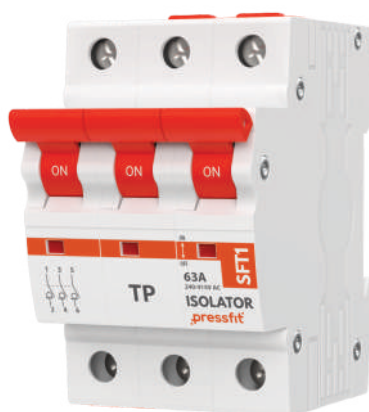
Code	Description	LP (₹)	PKG. (N)
813401	25A FP (30 mA)	2000.00	3
813421	40A FP (30 mA)	2000.00	3
813441	63A FP (30 mA)	2600.00	3
813402	25A FP (100 mA)	2000.00	3
813422	40A FP (100 mA)	2000.00	3
813442	63A FP (100 mA)	2600.00	3
813423	40A FP (300 mA)	2000.00	3
813443	63A FP (300 mA)	2600.00	3





Code	Description	LP (₹)	PKG. (N)
812213	40A DP ISO	320.00	6
812215	63A DP ISO	400.00	6
812217	100A DP ISO	560.00	6

DP
ISO



Code	Description	LP (₹)	PKG. (N)
812313	40A TP ISO	565.00	4
812315	63A TP ISO	670.00	4
812317	100A TP ISO	840.00	4

TP
ISO



Code	Description	LP (₹)	PKG. (N)
812413	40A FP ISO	700.00	3
812415	63A FP ISO	800.00	3
812417	100A FP ISO	1000.00	3

FP
ISO

DP COS

Code	Description	LP (₹)	PKG. (N)
814211	25A DP COS	540.00	6
814213	40A DP COS	725.00	6
814215	63A DP COS	1000.00	6



FP COS

Code	Description	LP (₹)	PKG. (N)
814411	25A FP COS	1020.00	3
814413	40A FP COS	1500.00	3
814415	63A FP COS	1800.00	3



Non-Modular Mini MCB

Compatible With
GOLD SWITCHES **GLORY** SWITCHES



Code	Description	LP (₹)	PKG. (N)
806105	6A SP MINI	165.00	10
806107	10A SP MINI	165.00	10
806109	16A SP MINI	165.00	10
806110	20A SP MINI	165.00	10
806111	25A SP MINI	165.00	10
806112	32A SP MINI	165.00	10

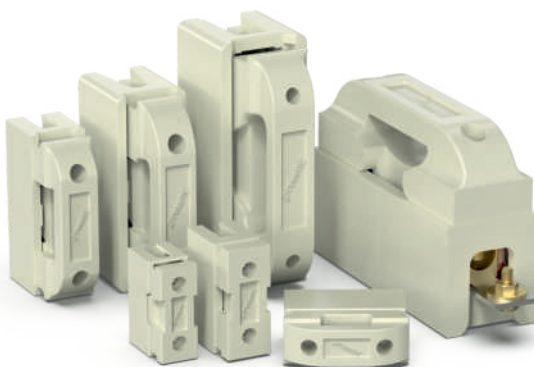
**SP
MINI
MCB**



Code	Description	LP (₹)	PKG. (N)
806209	16A DP MINI	330.00	10
806210	20A DP MINI	330.00	10
806211	25A DP MINI	330.00	10
806212	32A DP MINI	330.00	10

**DP
MINI
MCB**

Porcelain Kit-Kat Fuses



Code	Description	LP (₹)	PKG. (N)
598100	16A 240V	77.00	10
598110	16A 415V	131.00	10
598120	32A 415V	240.00	5
598130	63A 415V	600.00	1
598140	100A 415V	1060.00	1
598150	200A 415V	1780.00	1

**KIT
KAT
FUSES**



Distribution Boards



Code	Description	LP (₹)	PKG. (N)
801212	4 Way	518.00	1
801222	6 Way	587.00	1
801232	8 Way	748.00	1
801252	12 Way	1150.00	1
801262	16 Way	1438.00	1

**DIYA
DB**



Code	Description	LP (₹)	PKG. (N)
801310	4 Way	719.00	1
801320	6 Way	805.00	1
801330	8 Way	1035.00	1
801350	12 Way	1553.00	1
801360	16 Way	1898.00	1

**DIYA
PLUS
DB**
(METAL BACK)



Code	Description	LP (₹)	PKG. (N)
801312	4 Way	768.00	1
801322	6 Way	895.00	1
801332	8 Way	994.00	1
801342	10 Way	1104.00	1
801352	12 Way	1214.00	1
801362	16 Way	1430.00	1

**SAFARI
SPN
DB**



Code	Description	LP (₹)	PKG. (N)
801012	4 Way	1030.00	1
801022	6 Way	1200.00	1
801032	8 Way	1400.00	1
801042	10 Way	1575.00	1
801052	12 Way	1700.00	1
801062	16 Way	2200.00	1

**GOLD
SPN
DB**

GOLD TPN DB

Code	Description	LP (₹)	PKG. (N)
801412	4 Way	2827.00	1
801422	6 Way	3410.00	1
801432	8 Way	4015.00	1
801452	12 Way	5500.00	1



R-F SWITCH

Code	Description	LP (₹)	PKG. (N)
971010	16A R-F Switch	545.00	1
971020	25A R-F Switch	726.00	1
971030	32A R-F Switch	847.00	1

Reverse-Forward Switches



PHASE SEL. SWITCH

Code	Description	LP (₹)	PKG. (N)
972120	IP 3 Way 25A	363.00	10
972130	IP 3 Way 32A	382.00	10
972140	IP 3 Way 40A	575.00	5
972150	IP 3 Way 63A	605.00	5
972220	IP 4 Way 25A	424.00	10
972230	IP 4 Way 32A	424.00	10
972240	IP 4 Way 40A	666.00	5
972250	IP 4 Way 63A	666.00	5



MCB Metal Enclosure



Code	Description	LP (₹)	PKG. (N)
802013	1 Way	240.00	1
802023	2 Way	240.00	1
802033	3 Way	347.00	1
802043	4 Way	347.00	1
802053	6 Way	385.00	1
802063	8 Way	440.00	1
802073	10 Way	--	1
802083	12 Way	715.00	1
802093	16 Way	1000.00	1

GOLD ME
(w/o N-LINK & BUS BAR)



Code	Description	LP (₹)	PKG. (N)
802120	2 Way	270.00	1
802140	4 Way	350.00	1

NICO ME
(w/o N-LINK & BUS BAR)



Code	Description	LP (₹)	PKG. (N)
802320	2 Way	270.00	1
802340	4 Way	350.00	1

TONI ME
(w/o N-LINK & BUS BAR)

Miniature Circuit Breaker MCB

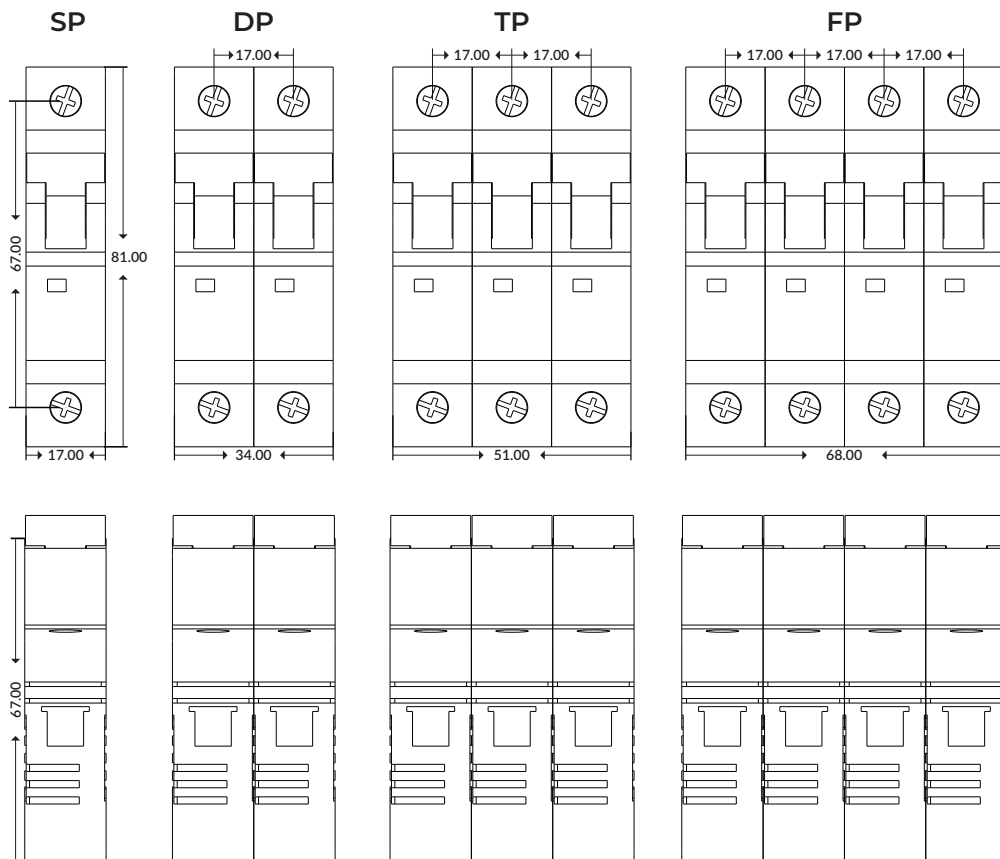
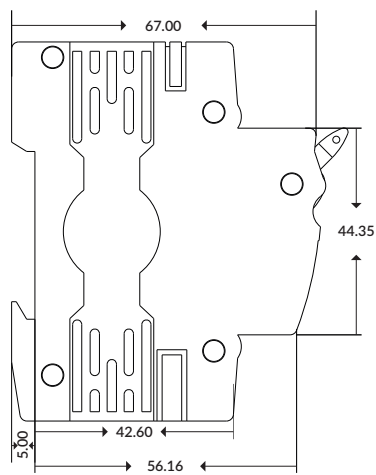
Dimensions (mm) - H x W x D

SP: 81 x 17 x 67

DP: 81 x 34 x 67

TP: 81 x 51 x 67

FP: 81 x 68 x 67

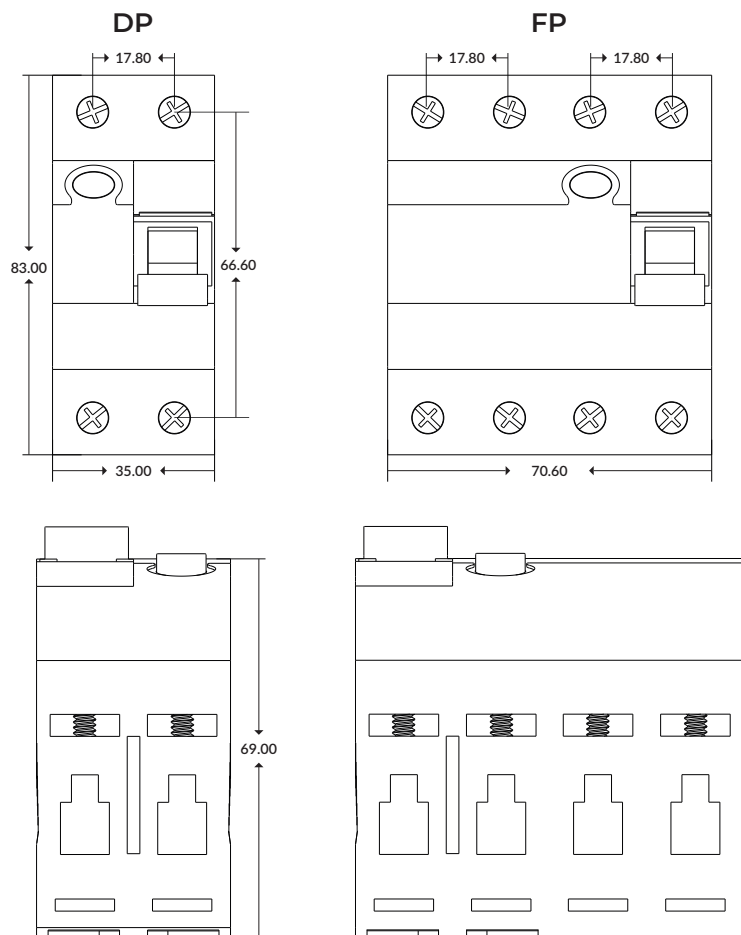
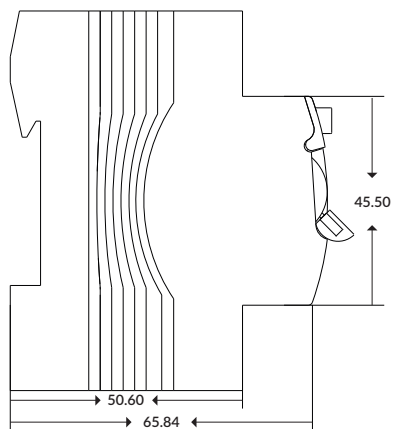


Residual Current Circuit Breaker (RCCB)

Dimensions (mm) - H x W x D

DP: 83 x 35 x 69

FP: 83 x 71 x 69



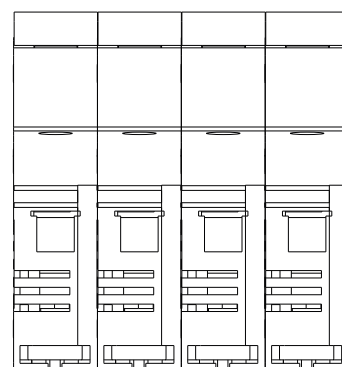
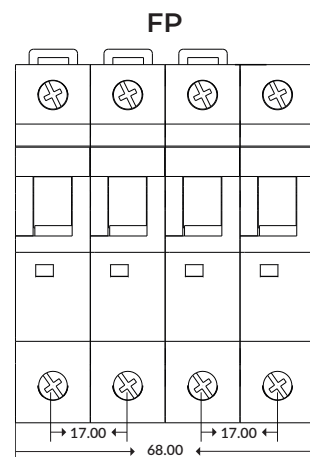
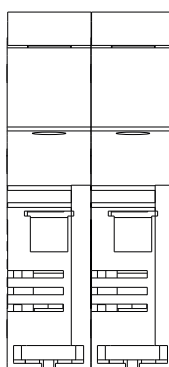
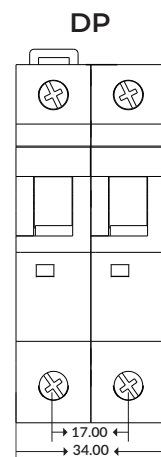
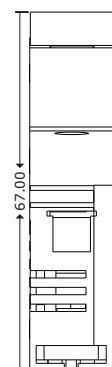
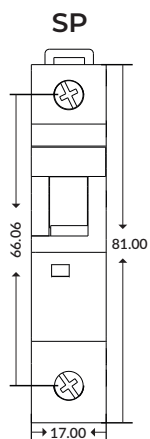
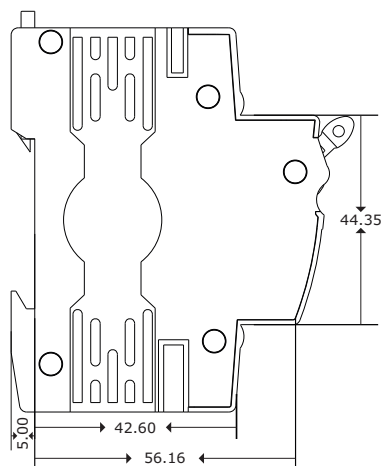
Isolator (ISO)

Dimensions (mm) - H x W x D

DP: 81 x 17 x 67

TP: 81 x 34 x 67

FP: 81 x 68 x 67

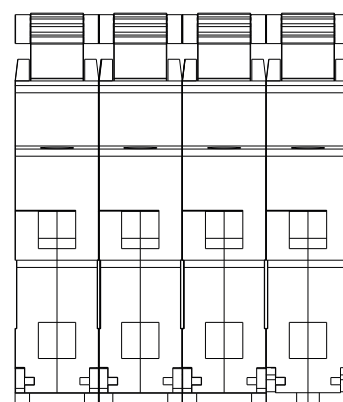
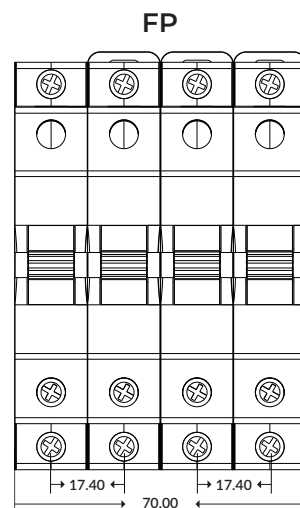
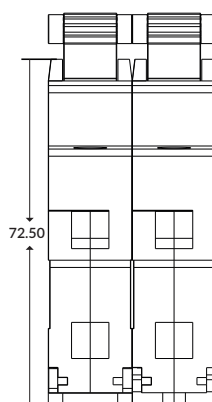
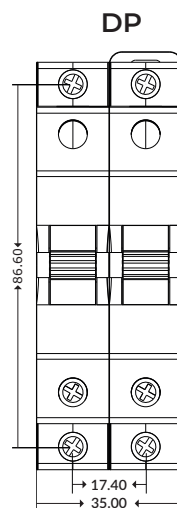
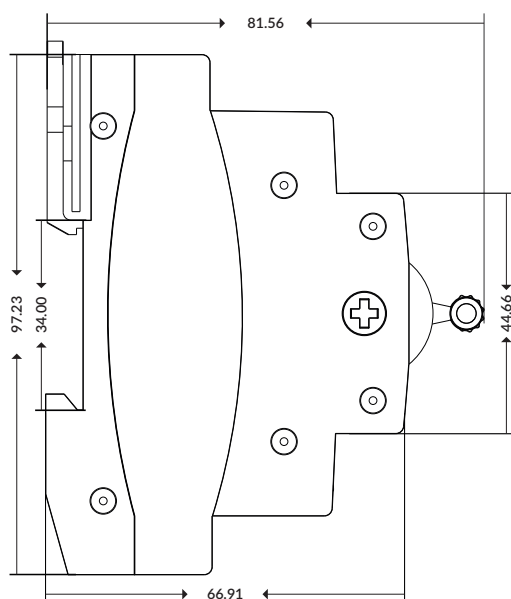


MCB Changeover Switch (COS)

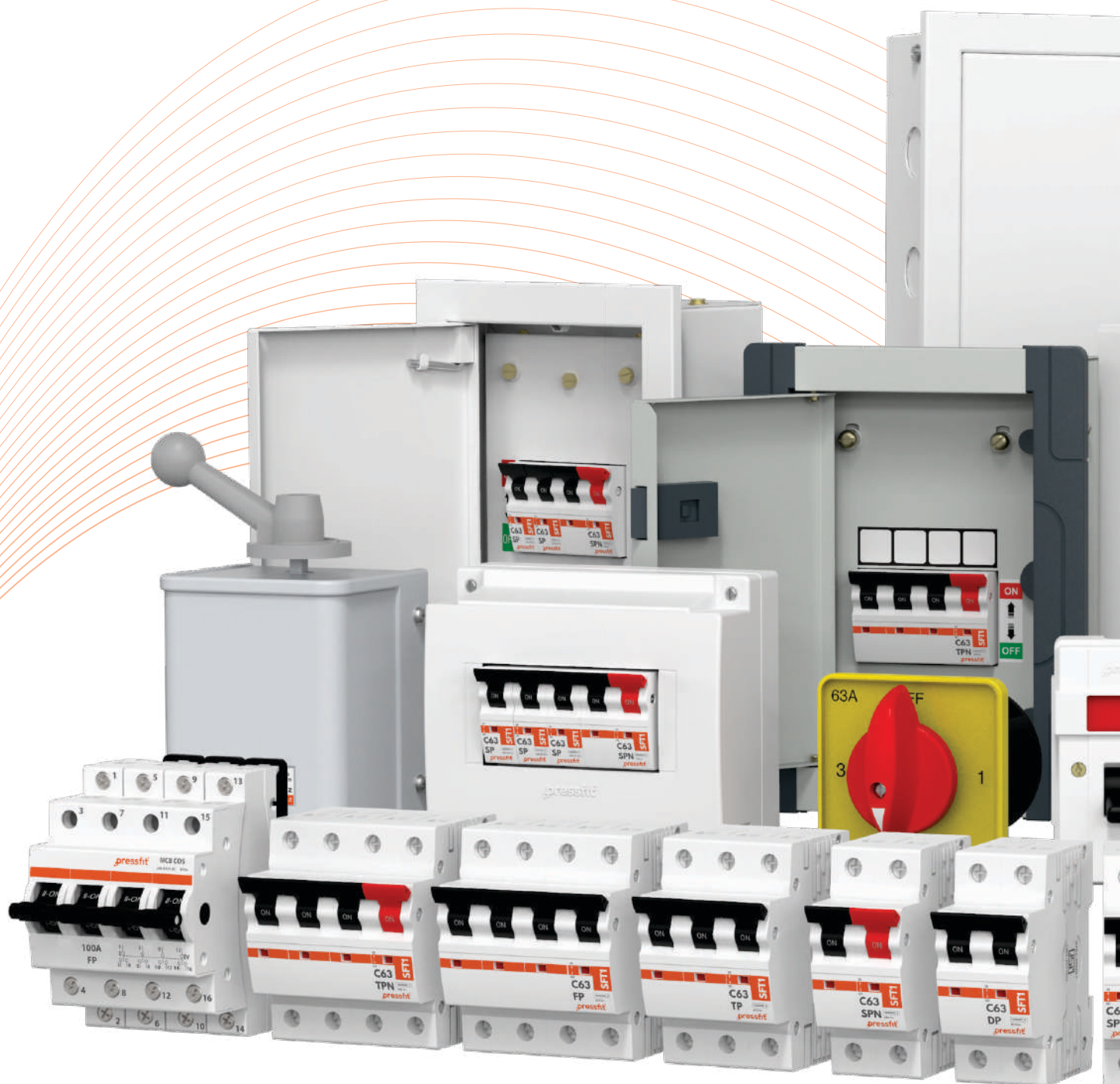
Dimensions (mm) - H x W x D

DP: 97 x 35 x 72.5

FP: 97 x 70 x 72.5



pressfit®



MINIATURE CIRCUIT BREAKERS (MCB) | RESIDUAL CURRENT CIRCUIT BREAKERS (RCCB)
ISOLATORS | MCB CHANGEOVER SWITCH (COS) | MINI MCBs
REVERSE-FORWARD SWITCHES | PORCELAIN KIT-KAT FUSES | PHASE SELECTOR SWITCHES
DISTRIBUTION BOARDS | MCB ENCLOSURES | AC BOXES

A collection of pressfit electrical components, including circuit breakers, fuses, and terminal blocks, displayed against a white background with orange curved lines. The components are arranged in a cluster, showing various models and sizes. Some components have labels like 'RCCB', 'FP', 'TP', 'DP', 'ISOLATOR', and 'SFT1'. The pressfit logo is visible on several components.



Company Warranty Policy

The company undertakes to replace/repair the defective part or the entire product at its discretion should they become defective solely because of faulty material or workmanship. The warranty is valid within 18 months from the date of manufacturing for all lighting products. In case of LED Drivers or PCBs turning defective within the warranty period, the company shall send a replacement Driver/PCB to the customer which can be easily rewired by an experienced electrician. The warranty shall be invalidated for all components in case of physically damaged products.

The warranty will be invalidated if the product has not been installed or maintained in accordance with the company's instructions, or if any attempt has been made to rectify, dismantle, or alter the product or if the original accessories of the company have not been used. The warranty states the company's entire liability. It does not extend to cover consequential losses or damage or installation costs arising from the defective product.

In the interest of continuous improvement, the company reserves the right to modify or change the product design and specifications of their products in future without any prior notice. In the event of replacements, if any, they will be done with the then prevailing designs.



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Public Departments





30 Years of Quality Solutions

With greater loads, come greater security requirements. Pressfit's SFT1 Circuit Breakers are designed, engineered, and made in India. These critical devices safeguard precious lives as well as expensive electrical appliances from damage due to electrical fluctuations, surges, and short-circuits. Pressfit's distinguishable Orange Line of Safety will protect your premises by placing Safety where it always should be. First.

Terms & Conditions:

1. Products will be supplied in their standard packaging.
2. Disputes, if any, will be subject to Ulhasnagar jurisdiction only.
3. We continuously upgrade our products and technology to provide our customers with the best experience. Due to this, the product design, specifications, or packaging, may change without prior notice.

Press Fit Pipe And Profile

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